City of Portland, Maine - Bu	ilding or Use	Permi	t Application	l P	ermit No:	Issue Date:		CBL:	Tanada a sang	
389 Congress Stree 1, 04101 Tel:	(207) 874-8703	, Fax:	(207) 874-871	5	09-0684			435 A0	01001	
Location of Constructions:	Owner Name:	and strains	. •	Owner Address:				Phone:		
97 ALLEN AVE	NORTHERN	NEW E	ENGLAND CO	7T)	H DAY ADVI	ENTIST INC	2	207-650-0	0611	
Business Name:	Contractor Name) :	Artical Control (Control of Control of Contr	Contractor Address:				Phone	ortoons/minimum value of the contract of the c	
_	Jims Plumbing	g & Hea	ting Inc.	98	Lamb Rd Wes	tbrook		20785480	068	
Lessee/Buyer's Name	Phone:	***************************************		Pern	nit Type:				Zone:	
	n entre de la companya del companya del companya de la companya de			ΗΛ	VAC				1 K-S1	
Past Use:	Proposed Uses	Proposed User TN 54 ctuff Commercial/Church - Install			mit Fee:	Cost of Wor	k:	CEO District:	10 9	
Gemmercial/Church	Commercial/C				\$200.00	\$18,00	0.00	4	1K-26	
Institutional	Alpine/Burnha	mDirec	t Vent Gas	FIR	E DEPT:	Approved	1	CTION:		
	Fired Stainles:	s Steel I	Boiler			Denied	Use Gr	oup: A	Type:	
THE CANADAS					<u> </u>] Demed	A. A		5 To 2 - 10 To 2 - 1, \$1, \$2, \$2, \$2.	
				¥	See Con	ditions	1	MC 200	53	
Proposed Project Description:				essimus		~	055555555555	15 0		
Install Alpine/BurnhamDirect Vent	Gas Fired Stainle	sg_Steel	Boiler	Sign	nature:	(b)	Signatu	re: AMB	-7/14/0	
				PED	ESTRIAN ACT	VITIES DIST			11	
is:				Acti	ion: Appro	ved 🗀 Anr	roved w/	Conditions	Denied	
				ACI	Applo	rea App	noveu w	Conditions	Demed	
		C	Signature:				Date:			
Permit Taken By: Date A				Zoning	Approva	ıl				
lmd 06/3	30/2009			O 11						
1. This permit application does no	t preclude the	Spe	cial Zone or Revie	ws	Zoni	ng Appeal		Historic Preservation		
Applicant(s) from meeting applicable State and			oreland	☐ Variance			Not in District or Landma			
Federal Rules.										
2. Building permits do not include plumbing,		Wetland		Miscellaneous			Does Not Require Review			
septic or electrical work.	3,									
3. Building permits are void if wor	rk is not started	Flood Zone		Conditional Use			Requires Review			
within six (6) months of the date	e of issuance.									
within six (6) months of the date of issuance. False information may invalidate a building		Subdivision		Interpretation			Approved			
permit and stop all work										
		☐ Si	Site Plan		Approved			Approved w/Conditions		
DEDMIT ICCL	IED .	Maj Minor MM		Denied			Denied			
PERMIT ISSU		0		,					/	
		Date:	7/7/C	9	Date:		$ _{\mathrm{D}}$	ate:)	
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	and the second s									
CITY OF PORT	LAND									
The second section of the section of the second section of the section of t	nde of graphic and delicate representations of the section of the									
		C	CERTIFICATION	NC						
I hereby certify that I am the owner o	f record of the na				onosed work is	s authorized	by the	owner of recor	d and that	
I have been authorized by the owner	to make this appl	ication	as his authorized	lage	nt and I agree	to conform	to all a	oplicable laws	of this	
jurisdiction. In addition, if a permit f	or work describe	d in the	application is is	sued	l, I certify that	the code of	icial's a	uthorized repre	esentative	
shall have the authority to enter all ar	eas covered by su	ich peri	mit at any reasor	able	hour to enfor	ce the provi	sion of	the code(s) app	plicable to	
such permit.										
SIGNATURE OF APPLICANT			ADDRESS			DATE		PHO	NE	
			, morning	Ditto				11101	.12	

City of Portland, Ma 389 Congress Street, 04	ine - Building or Use Perm 101 Tel: (207) 874-8703, Fax:	it (207) 874-871	Permit No: 09-0684	Date Applied For: 06/30/2009	CBL: 435 A001001
Location of Construction: 97 ALLEN AVE	Owner Name: NORTHERN NEW		Owner Address: 7TH DAY ADVE	Phone: 207-650-0611	
Business Name:	Contractor Name: Jims Plumbing & He	ating Inc.	Contractor Address: 98 Lamb Rd West	brook	Phone (207) 854-8068
Lessee/Buyer's Name	Phone:		Permit Type: HVAC		
Proposed Use: Institutional/Church - Insta Stainless Steel Boiler	all Alpine/BurnhamDirect Vent Ga	i i	ed Project Description: l Alpine/BurnhamD		Stainless Steel Boiler
Dept: Zoning Note:	Status: Approved	Reviewer	: Marge Schmucka	ıl Approval D	ate: 07/02/2009 Ok to Issue: ☑
Dept: Building Note:	Status: Approved with Condition	ns Reviewer	Jeanine Bourke	Approval D	ate: 07/14/2009 Ok to Issue:
	installed in accordance with the U omply with the State of Maine Gas		003 and NFPA 211.		on to issue.
Note:	Status: Approved with Condition e 1 hour rated or have sprinkler prints		Capt Keith Gautr	11	ate: 07/08/2009 Ok to Issue: ✓
	h all manufacture's specifications.		a above the botter)		



APPLICATION FOR PERMIT HEATING OR POWER EQUIPMENT

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To the INSPECTOR OF BUILDINGS, PORTLAND, ME.

Bldg.:	Inspector's Signature Date Approved
Fire:Ele.:	Approved with Conditions ☐ See attached letter or requirement
Approved	Approved with Conditions
Other	Cost of Work: \$ 18,000 Permit Fee: \$ 30000
Gas #	Cost of Work: \$ 18,000
☐ Solid Fuel #	Distance from Tank to Center of Flame feet.
The Type of License of Installer:	Number of Tanks
	Size of Tank
IF NO Explain:	Gas AMACINATO
installation instructions? The Yes No	Type of Fuel Tank Oil JUN 3 0 2009
Will appliance be installed in accordance with the manufacture's	
U.L. Approved Yes D No	Direct Vent Type PVC UL#UL#
and the last of the second	/ Listing #
Type of Fuel: O Gas Oil Solid	☐ Metal Factory Built U.L. Listing #
	Factory built
☐ Attic ☐ Roof	Masonry Lined
Location of appliance: Basement Floor	Type of Chimney:
Name and address of owner of appliance Second Day Arentas Cheu Installer's name and address Jews & PS H	/ /
accordance with the Laws of Maine, the Building Code of	1 1









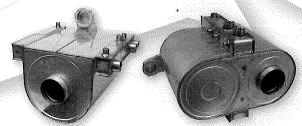
Stackable cabinets allow two Alpine boilers to fit the footprint of one. This feature is standard on every Alpine. When stacked, 1000 MBH requires approximately six square feet!

Peak Performance for Hydronic and Radiant Heating

Introducing the Alpine from Burnham, a condensing boiler with efficiency ratings of 95%. The Alpine utilizes a stainless steel heat exchanger, designed to extract maximum heat from the combustion process, along with a control system that is designed to enhance boiler efficiency as well as system efficiency. With 7 different models ranging in size from 80,000 BTUs – 500,000 BTUs, there's a model for nearly every job from small residential to light commercial installations. Intelligent features are wrapped in a sleek, modern appliance-like jacket, making the Alpine both attractive and smart.

Stainless steel heat exchanger

The heart of the Alpine boiler is the ASME-certified stainless steel heat exchanger. Each heat exchanger is factory hydrotested to insure quality and reliability.



Alpine Controls

The control system on the Alpine has several features that maximize efficiency and comfort of the heating system:

- Full Modulation with 5-to-1 turndown
- Outdoor Reset
- Plug & Play Connections
- Domestic Hot Water Priority
- Stackable, with Built-in Provisions for External Staging Controls. Built-in terminals can receive a 0-10V DC signal from an external modulating control.

Natural or LP Gas

The Alpine is designed for easy field conversion from natural gas to LP gas with no kits or special tools required. The turn of a screw is all it takes!

FREE 5-Year Parts & Labor Warranty



The unmatched protection of a FREE 5-year parts & labor warranty is available with every Alpine boiler under 300 MBH and used in a residential application. This plan covers all Burnham-provided parts and the associated labor costs on eligible Alpine boilers for five years from the date of installation at no additional cost! Alpine boiler registration is required

within 90 days from the installation date. Registratrion is fast and simple, either by completing and mailing the registration card provided with the Alpine boiler or via the web at www.burnham.com/productregister.

Single Point Power

Boiler pump and DHW pump are powered directly from the Alpine

Negative Cabinet -Pressure

Lower portion of the boiler cabinet operates under a negative pressure, creating an additional layer of safety

Easy To Move and Install

Jacket sides are equipped with flush mounted carry handles. Jacket bottom features nylon glides

Simple Connections

All gas, water, and electrical connections are made from the left side of the boiler

Condensate Protection

Unique polyproplyene condensate trap (patent pending) stands up to acidic condensate, and features an integral float switch which protects the heat exchanger from back-up

Venting

Alpine comes standard with a CPVC/PVC

vent kit. This ETL-approved material consists of a 30" CPVC starter pipe and one 90° CPVC elbow.

ALSO AVAILABLE



An optional European-standard **Polyproplyene Concentric** Vent System is also available. The Alpine can also be vented with an optional two pipe system using stainless steel (AL29-4C) vent matierial.

Alpine **

lower jacket to protect them from cold or moist combustion air

Smart Controls Display panel shows control status, settings can be adjusted with soft-touch buttons

Sealed Top Panel The sealed top panel

from spills or leaks;

the components are

also isolated from the

protects boiler controls

Control panel slides out for easy servicing



Efficient Combustion

Air and fuel are pre-mixed in the blower assembly for clean, balanced combustion

Design Simplicity

Separate spark rod and flame sensor are used for longevity and reliability

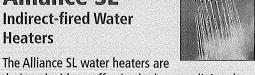
Long Lasting Comfort

Durable, efficient stainless steel heat exchanger maximizes heat transfer

American-Made Quality

Alpine boilers are designed and assembled in Lancaster, PA. Each Alpine is hydrotested and fire-tested in order to deliver safety, efficiency, durability and low emissions.

Burnham **Alliance SL™ Indirect-fired Water** Heaters



designed with an effective hydrastone lining that offers superior corrosion resistance and outstanding performance in a wide variety of water conditions.

Water heaters are available in five sizes and come with a unique 10/2/1 warranty -10 years on the tank and coil, 2 years labor and 1 year on parts.



Alpine Specifications

Input (MBH		Input (MBH)		946	Net		Boiler Water	Heat Trans.	Shipping
Model No. Minimum N	Maximum	Output (MBH)	I=B=R	AFUE (%)	Volume	Area	Weight		
erentario de	to 2k ft. 2-7k ft. 0-7k ft.	0-7k ft.	(WBH)	(MBH)	(70)	(gallons)	(sq. ft.)	(pounds)	
ALP080	16	27	80	73	63	95	0.6	0,6	137
ALP105	21	35	105	96	83	95	0.7	0.7	155
ALP150	30	50	150	137	119	95	1.3	1.3	182
ALP210	42	70	210	193	168	95	1.7	1.7	206
ALP285	57	57	285	263	229	95	2.4	2.4	256
ALP399	80	80	399	377*	328	94.1/94.5**	3.4	3.4	304
ALP500			– Call fo	r product avail	: ability and ac	lditional inform	nation —	<u> </u>	

NOTES: DOE Heating Capacity (ALP080 through ALP285); Gross Output (ALP399)

*Gross output

** Thermal/combustion efficiency

Maximum Working Pressure - Water: ALP080-285=30PSI; ALP399=50PSI; 80PSI optional on all models Maximum Allowable Temperature = 210° F Boilers shipped set for natural gas; field adjustment for LP (see instruction manual)

For elevations above 2000 feet, reduce ratings four percent (4%) per 1000 feet above sea level











Alpine Dimensions

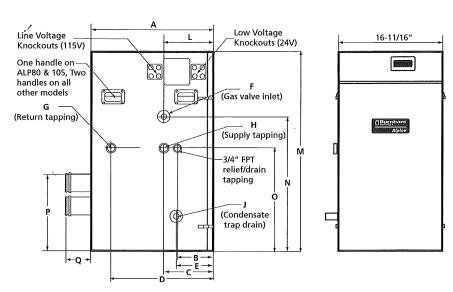
Model No.	A (in.)	B (in.)	C (in.)	D (in.)	E (in.)	F (in.)	G (in.)	H (in.)	J (in.)	L (in.)	M (in.)	0 (in.)	P (in.)	Q (in.)
ALP080	12-9/16	5-5/8	7-5/16	9-5/16	5-15/16	1/2	1	1	*	8	32-3/16	16-11/16	12-1/2	4-3/4
ALP105	14	5-13/16	7-5/16	10-3/4	5-15/16	1/2	1	1	*	8	32-3/16	16-11/16	12-1/2	4-3/4
ALP150	19-11/16	5-13/16	7-5/16	16-7/16	5-15/16	1/2	1	1	*	8	32-3/16	16-11/16	12-1/2	4-3/4
ALP210	23-15/16	5-13/16	7-5/16	17-1/8	5-15/16	1/2	1	1	*	8	32-3/16	16-11/16	12-1/2	4-3/4
ALP285	21-13/16	7-5/16	14-1/8	18	12-1/4	3/4	1-1/4	1-1/4	*	8-5/16	43-7/16	17-5/16	12-3/16	4-3/4
ALP399	28-7/8	6-3/16	13-1/16	23-3/4	15-13/16	1	1-1/2	1-1/2	*	8-5/16	43-7/16	17-5/16	12-3/16	4-3/4

^{*}Factory-provided socket end compression pipe joining clamp for 3/4" schedule 40 PVC pipe

Alpine Intake / Vent Sizes

Model No.	Intake Size	Vent Size	Max Length
ALP080	3"	3"	60'
ALP105	3″	3'	60′
ALP150	4"	3"	60'
ALP210	4"	3"	60'
ALP285	4"	4"	60'
ALP399	. 4"	4"	60'

Max length in equivalent feet for each run is 60 equivalent feet of intake & 60 equivalent feet vent length



Maximum Vent Lengths

# of 90° Elbows	2	4	6	8	10	12
Combined Intake/Vent - Feet of Pipe	110′	100′	90'	80′	70'	60'

NOTE: Snorkels are approved for use with PVC venting. Intake & vent lengths combined. $90^{\circ} = 5$ equivalent feet. Terminals do not count towards vent feet length



www.burnham.com